

BRIKMAN, B

RUMANIA/Virology - Viruses of Man and Animals.

D-3

Abs Jour : Ref Zhur - Biologiya, No 7, 10 April 1957, 26131

Author : Elias, Brukner, Marinesku, Brikman, Fridman, Teodoresku,
Spiner.

Inst :

Title : Clinical Forms of Infectious Hepatitis among Children
and Their Relation to A_BC.

Orig Pub : Pediatria, 1956, 5, No 2, 168-183

Abst : No abstract.

Card 1/1

BRIKMAN, B.

ELIAS, H., (Lecturer); BRUCKNER, S.; MARINESCU, Gh.; BRIKMAN, B.; FRIEDMAN, I.;
TEODORESCU, T.; SPINER, F.

Clinical forms of epidemic hepatitis in children, according to age.

Rumanian M. Rev. 2 no.1:35-36 Jan-Mar 58.

(HEPATITIS, INFECTIOUS, in inf. & child

classif. of clin. forms according to age, statist.)

BRIKMAN, B.M.

Outbreak of tularemia spread through water. Trudy Tom NIIVS
12:59-60 '60 (MIRA 16:11)

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BRIKMAN, D.I.

Epidemiology and measures for tularemia control in the
Yakut A.S.S.R. Zhur. mikrobiol. epid. i immun. 40 no.5:
60-64 My '63. (MIRA 17:6)

1. Iz Irkutskogo nauchno-issledovatel'skogo protivochumnogo
instituta.

BRIKMAN, D.I.

Effect of streptomycin therapy on the development of antibodies
in rabbits inoculated with tularemia. Dokl. Irk. gos. nauch.-
issl. protivochum. inst. no.5:72-75 '63 (MIRA 18:1)

L 59485-65 EWA(b)-2/EWA(j)/EWT(1) JK

ACCESSION NR: AP5011271

UR/0016/65/000/004/0018/0020

AUTHOR: Brikmar, D. I.

TITLE: Tularemia infection probability in man in a floodplain type focus

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 4, 1965, 18-20

TOPIC TAGS: man, tularemia, infection probability, Yakutsk ASSR, natural focus, rat, mosquito, epidemiology, epizootiology

ABSTRACT: Tularemia incidence rates were investigated in the Namskiy rayon and Megino-Kagalasskiy rayon of Yakutsk ASSR in 1959-60 to determine the infection probability of nonimmune persons in a floodplain type of focus over a period of time. The infection was observed primarily among persons engaged in agriculture. In July-August on the islands of the Lena River floodplains where natural foci are concentrated. Mosquitoes in the floodplains transmit the infection to water rats which are the main source of infection for man. In 1959 Namskiy rayon reported the highest incidence rate (120.7 cases per 10,000) and in 1960 the Megino-Kagalasskiy rayon.

Card 1/2

L 59485-65

ACCESSION NR: AP5011271

reported the highest incidence rate (128 cases per 10,000). In addition to high incidence rates, these two rayons were selected for analysis because epidemiological investigations of water-borne tularemia have been conducted earlier in these areas. On the basis of the results of the epidemiological investigations of water-borne tularemia (11 to 12 infected) and mosquitos (1 tularemia culture isolated per 4,000), and tularemia incidence rates for different areas, the probability of tularemia infection for nonimmune persons exposed to a floodplain type focus for 3 to 6 weeks is 12-27% with a fluctuation from 7.5 to 30%. Orig. art. has: None.

ASSOCIATION: Irkutskiy nauchno-issledovatel'skiy protivochumnyy institut Sibiri i Dal'nego Vostoka (Irkutsk Scientific-Research Antiplague Institute of Siberia and the Far East)

SUBMITTED: 24Dec63

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 000

Card 2/2

BRIKMAN, D.I.

Basic characteristics of the floodplain tularemia focus in
Yakutia. Zool. zhur. 44 no.5:655-659 '65.

(MIRA 18:6)

1. Irkutskiy protivochumnyy institut Sibiri i Dal'nego Vostoka.

BRIKMAN, I.

Improve the over-all mechanization in every possible way. Mor.
flot 23 no.10:13-14 0 '63. (MIRA 16:10)

1. Nachal'nik otдела mekhanizatsii Bakinskogo porta.
(Cargo handling—Equipment and supplies)

BRIKMAN, I.M.

Diamond powders. Standartizatsia 24 no.5:39-41 My '60.

(MIRA 14:3)

(Diamond powder--Standards)

GORCHAKOVSKAYA, N.N.; LEBEDEV, A.D.; BRIKMAN, L.I.; KOLESNIKOV, A.A.

Extermination of ticks *Ixodes persulcatus* P.Sch. in natural nidi of tick-borne incephalitis; preliminary report. Med.paraz.i paraz.bol. no.4:331-337 JI-Ag '53.

(MLRA 6:9)

(Ticks)

VASHKOV, V.I.; SHNAYDER, Ye.V.; BRIKMAN, L.I.; ZAKOLODKINA, V.I.; CHUBKOVA, A.I.; ALIMBARASHVILI, TS.N.; BABAYANTS, G.A.; BERIANIDZE, I.Sh.; ZAKHAROV, P.V.; ISAAKYAN, A.G.; LEVIYEV, P.Ya.; MARTINSON, M.E.; MRACHKOVSKIY, S.K.; NAYDICH, N.L.; NESTERVODSKAYA, Ye.M.; RAZMANOVA, Ye.M.; SAVINA, K.V.; SERGEYEVA, A.Ye.; SOKOLOVA, M.Ye.; FOMICHEVA, V.S.; CHERNYSHOVA, V.A.; SHUMILOVA, T.V.

Sensitivity to DDT of houseflies in various climatic zones of the USSR. Zhur.mikrobiol., epid.i immun. 33 no.8:20-24 Ag '62.
(MIRA 15:10)

1. Iz TSentral'nogo nauchno-issledovatel'skogo dezinfektsionnogo instituta.

(FLIES—EXTERMINATION) (DDT)

VASHKOV, V.I.; SHNAYDER, Ye.V.; ZAKOLODKINA, V.I.; BRIKMAN, L.I.; CHUEKOVA, A.I.
ALIMBARASHVILI, TS.N.; BABAYANTS, G.A.; BERIANIDZE, I. Sh.;
ZAKHAROV, P.V.; ISAAKYAN, A.G.; LEVIYEV, P. Ya.; MARTINSON, M.E.;
MRACHKOVSKIY, S.K.; NAYDICH, N.L.; NESTERVODSKAYA, Ye.M.;
RAZMANOVA, Ye.M.; SAVINA, K.V.; SERGEYEVA, A.V.; SOKOLOVA, M.Ye.;
FOMICHEVA, V.S.; CHERNYSHEVA, V.A.; SHUMILOVA, T.V.

Sensitivity of houseflies to chlorophos prior to its use.

Zh. mikrobiol. 40 no.7:3-7 J1'63

(MIRA 17:1)

VASHKOV, V.I., doktor med. nauk prof.; SUKHOVA, M.N., doktor
biol. nauk; KERBAYEV, E.B., kand. med. nauk;
SHNAYDER, Ye.V., kand. med. nauk; DREMOVA, V.P., kand.
biol. nauk, retsenzent; VOLKOVA, A.P., kand. biol. nauk,
retsenzent; BRIKMAN, L.I., kand. biol. nauk, retsenzent;
VOLKOV, Yu.P., kand. khim. nauk, retsenzent; BESSONOVA,
I.V., biolog, retsenzent; ZUBOVA, G.M., biolog, retsenzent;
KARON, I.I., red.

[Insecticides and their use in medical practice] Insekti-
tsidy i ikh primeneniye v meditsinskoj praktike. Moskva,
Meditsina, 1965. 523 p. (MIRA 18:12)

BRIKMAN, L.M.; LEYBIN, L.S.

Clinical aspects and course of bidermal tumors for the brain [with
summary in French], Zhur.nevr. i psikh. 57 no.4:477-482 '57.

(MLRA 10:7)

(BRAIN NEOPLASMS, case reports,

mixed spongioblastom & angioreticulosarcoma tumor (Rus))

BRICKMAN, L. M.

BRICKMAN, L. M.

Some equipment helpful in the treatment of paralysis. Zhur. nevr.
i psikh. Supplement: 51 '57. (MIRA 11:1)
(PARALYSIS) (PHYSIOLOGICAL APPARATUS)

BRIKMAN, L.M.

Method and therapeutic value of a suggestion-phenamine combination
in enuresis. [with summary in French]. Zhur.nevr. i psikh. 58
no.2:204-205 '58. (MIRA 11:5)

(ENURESIS, therapy,
amphetamine & suggestion (Rus))
(AMPHETAMINE, ther.use,
enuresis, with co suggestion (Rus))
(SUGGESTION, ther.use,
enuresis, with amphetamine (Rus))

EXCERPTA MEDICA Sec 8 Vol 12/1 Neurology Jan 59

371. SPONTANEOUS RUPTURES OF CEREBRAL ABSCESES (Russian text) -
Brikman L. M. - VOP. NEJROHIR. 1958. 2 (40-41)

Two cases of this rare event are reported. In a 23-year-old soldier, 254 days after a penetrating cranial shell wound, a brain abscess ruptured on the surface of a cerebral hernia. By this spontaneous evacuation, the patient was cured but remained blind from secondary optic atrophy. In another patient, 20 yr. of age, repeated tapping of a traumatic brain abscess was followed by a superficial burst after which the patient died. In neither case had surgery been attempted.

Heppner - Graz

BRIKMAN, L.M., kand.med.nauk (Tambov)

Clinical aspects of hemorrhagic forms of tuberculous meningitis.
Sov.med. 24 no.9:112-114 S '60. (MIRA 13811)
(MENINGES--TUBERCULOSIS)

Brikman, S. M.

LATVIA/Chemical Technology - Food Industry.

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 55559

Author : Brikman, S.

Inst : -

Title : A Mechanized Unit for the Production of Varieties of Rye Bread.

Orig Pub : Padomju Latvijas tautas saimnieciba, 1957, No 1, 14-16

Abstract : A description is given on the scheme for the equipment and the technological process of liquid ferments from lactic acid bacteria and yeast. The process was adapted in one of the Riga bread-making factories with the purpose of using continuous dough-preparation aggregates for the production of rye bread.

Card 1/1

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BRIKMAN, S.M.

Mechanized section for the preparation of liquid leaven for rye bread
according to the I-1 method. Khleb.i kond.prom. 1 no.8:30-33 Ag '57.
(MLRA 10:8)

1.Latviyskiy trest khlebopecheniya.
(Bakers and bakeries--Equipment and supplies) (Bread)

BRIKMAN, V. G.

Results of organization of district trachoma control. Vest.
oft., Moskva 30 no.3:34-36 May-June 1951. (CIML 21:1)

1. Of the Eye Clinic (Director -- Prof. A. I. Dashevskiy),
Kuybyshev Medical Institute.

BRIEMAN, V.G.; GEMPEL', V.V.

Organization of the medical and health service of industrial enterprises
connected with a city hospital. Zdrav.Rus.Fed. 1 no.7:5-8 J1 '57.

(MIRA 12:12)

1. Iz Podol'skoy gorodskoy bol'nitsy No. 1 (glavnyy vrach V.G. Brikman)
Moskovskoy oblasti.

(PODOL'SK--INDUSTRIAL HYGIENE)

BRIKMAN, V. G.

Method of mass prevention of glaucoma through active detection
and dispensary care. Vest. oft. no.2:57-61 '62.

(MIRA 15:4)

1. Glavnoye otdeleniye Podol'skoy gorodskoy bol'nitsy No. 1.

(GLAUCOMA)

BRIKMANIS, E. (Riga)

Possibilities of preventing complications in pulmonary resections
in connection with tuberculosis. In Russian. Vestis Latv ak no.4:
185-188 '60. (EEAI 10:7)

1. Akademiya nauk Latvyskoy SSR, Institut eksperimental'noy
meditsiny.
(TUBERCULOSIS)

BRIKOV, K.; NAKLONOV, IU., dots.

Vertical swing. Aviats kosmonavt 6 no. 4: 9 '64.

SHMEL'KOV, V.I.; SHCHEDROVITSKIY, Ya.S.; KADARMETOV, Kh.N.; BRIKOVA, O.V.;
SHIRYAYEV, Yu.S.; AGARKOVA, N.A.; KRAVCHINSKIY, R.V.; TAMBOVTSEV, V.A.

Material and power balance in melting carbon ferrochromium
in a large furnace. Stal' 24 no.12:1094-1096 D '64.

(MIRA 18:2)

MIKELADZE, G.Sh.; NADIRADZE, Ye.M.; PKHAKADZE, Sh.S.; GOGORISHVILI, B.P.;
DGEBAUDZE, G.A.; SOLOSHENKO, P.S.; SEMENOV, V.Ye.; BARASHKIN, I.I.;
SHIRYAYEV, Yu.S.; POSPELOV, Yu.P.; KATSEVICH, L.S.; ROZENBERG, V.L.;
Prinimali uchastiye: LORDKIPANIDZE, I.S.; TSKHVEDIANI, R.N.;
DZODZUASHVILI, A.G.; DUNIAVA, A.G.; PEKARSKIY, L.F.; GRITSFNYYUK, Yu.V.;
ZHELTOV, D.D.; LUZANOV, I.I.; GLADKOVSKIY, V.P.; PODMOGIL'NNY, V.P.;
VOROPAYEV, I.P.; BRIKOVA, O.V.; VRUBLEVSKIY, Yu.P.; KLYUYEV, V.I.;
BAYCHER, M.Yu.; LOGINOV, G.A.; SHILIN, V.K.; POPOV, A.I.; ZASLONKO, S.I.

Industrial experiments in the smelting of 45 o/o ferrosilicon in
a heavy-duty closed electric furnace. Stal' 25 no.5:426-429 My '65.
(MIRA 18:6)

1. Gruzinskiy institut metallurgii (for Lordkipanidze, Tskhvediani,
Dzodzuashvili, Guniava). 2. Nauchno-issledovatel'skiy i proyektnyy
institut metallurgicheskoy promyshlennosti (for Brikova, Vrublevskiy,
Klyuyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut elektro-
termicheskogo oborudovaniya (for Baycher, Loginov, Shilin, Popov,
Zaslonko).

BRIKS, Wojciech; BRIKS, Andrzej

Synthetic waterless molding sands. Przegl odlew 14 no.11:318-320
N '64.

BRIKS, Wojciech, mgr. inż.

Technological progress in the world steel industry. Przegl techn 85
no.17:5 26 Ap '64.

BRIKS, Wojciech; BRIKS, Andrzej

Synthetic waterless molding sands. Przegl odlew 14 no.11:318-320
N '64.

BRIS, Wojciech, mgr inż.

The new casting house of the British Piston Ring Co. Przegl techn
86 no.5:7 31 Jan 1965.

1. Institute of Casting, Technical University, Szczecin.

BRIKS, Z.N.; KOSILOV, S.A.

Physiological analysis of the formation of a lathe operator's
working habits in school children. Zhur. vys. nerv. deiat. 13
no.5:928-938 S-0'63 (MIRA 16:11)

1. Institute of Physical Education and School Hygiene, R.S.F.S.R.
Academy of Pedagogical Sciences, Moscow.

BRIKS, Z. N.

"The Results of an Experimental Study of the Typological Peculiarities of the Higher Nervous Activity of School-Age Children." Cand Med Sci, Inst of Higher Nervous Activity, Acad Sci USSR, 3 Dec 54. (VM, 23 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

BRIKS, ZN

V-12

USSR/Human and Animal Physiology - Nervous System.

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4481

Author : Z.N. Briks

Inst : Institute for the Higher Nervous Activity, Academy of Sciences USSR

Title : Experimental Investigation of Typological Peculiarities of the Higher Nervous Activity in School Children.

Orig Pub : Ser. patofiziol., 1956, 2, 149-174

Abstract : Investigations concerned 45 children aged 8 to 11. In the excitatory type positive connections formed rapidly while inhibitory connections developed slowly. The inhibitive type slowly formed unstable positive connections while the inhibitory connections were unstable with a tendency towards generalization. Rapid formation of positive and inhibitory connections and an absence of

Card 1/2

BRIKS, 2 IV.

USSR/Human and Animal Physiology - Nervous System.

V-12

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4482

Author : Z.N. Briks

Inst : Institute of the Higher Nervous Activity, Academy of Sciences USSR

Title : Typological Peculiarities of Joint Functioning and Interaction of Two Signalling Systems in School Children

Orig Pub : Ser. patofiziol., 1956, 2, 175-200

Abstract : The first signalling system (a more rapid formation of conditioned motor reactions to direct stimulus) showed a predominance in nine schoolgirls out of 45 while the second signalling system (more rapid formation of reactions to verbal stimulus, correct account, frequently preceding the reaction during the testing of direct stimulus) was predominant in other 9 girls. In 27 girls

Card 1/2

BRIKS, Z.N.

Study of some immune reactions in children in various types of higher nervous activity. Trudy Inst. vys. nerv. deiat. Ser. patofiziol. 8: 58-64 '61. (NERVOUS SYSTEM) (PHAGOCYTOSIS) (MIRA 15:2)

S/184/60/000/004/005/021
A109/A029

AUTHORS: Besednyy, V.A.; Briksman, A.N. - Graduate Engineers

TITLE: Welding^b of 1X18H9T (1Kh18N9T)^b Steel With Low-Carbon-Steel

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1960, No. 4, pp. 14 - 17

TEXT: Welding of low-carbon steel with acid-proof steel is frequently employed in manufacturing chemical equipment by the Sumskiy mashinostroitel'nyy zavod im. Frunze (Sumy Machine Building Plant imeni Frunze). The following electrodes are recommended for welding of low-carbon steels with acid-proof 18-8 (Cr-Ni) steel: УОНН/НЖ (UONI/NZh) and ЭНТУ-3 (ENTU-3) with wires of a chemical composition similar to 18-8 steel and Св Х25Н13 (Sw Kh25N13) and Св Х25Н20 (Sw Kh25N20) wires. Sw Kh25N13 is insulated with ENTU-3 and laboratory tests revealed a tendency to hot cracks in Sw Kh25N20 wires. Experience proved that technically inferior UONI/NZh electrodes produce harder fusion-zone joints than ENTU-3 and ОХ18Н9 (ОХ18Н9) wires. The possibility of improving welded joints by addition of alloying substances was tested on 10-mm thick 1Kh18N9T and St.3 steels and butt-welded 400 x 100 x 10 mm strips. Automatic welding was carried out by ХНК-66 (KhNK-66) flux with 5-mm electrode wire at 500 amp, a welding

1/2

S/184/60/000/004/005/021
A109/A029

Welding of 1X18H9T (1Kh18N9T) Steel With Low-Carbon Steel

speed of 27.5 m/h and wire speed of 62.5 m/h. Metallographic tests were made by Graduate Engineer T.A. Akol'tseva on a ПМТ-3 (PMT-3) installation at a load of 200 g. A description of testing of welded joints is given. As expected the best results were achieved by addition of manganese. Its numerous advantages and the ability to decrease the hardness of metal decided its choice as basic alloying agent. The best manganese alloy¹ is the X20H20F6 (Kh20N10G6) wire (3.0% Mn content in joint). Tendency to micro-fractures was determined by the multi-layer surfacing method. Various types of electrodes were tested: OKh18N9 wire insulated with ENTU-3 to which 8% of Me2 (Mr2) manganese was added; X20H10F6T (Kh20N10G6T) wire unsultated with Ф-1 (F-1) and electrodes ensuring a higher content of manganese in the joint, i.e., Kh20N10G6T wire insulated with ENTU-3 and enriched with 8% of Mr2 manganese. These were compared to ENTU-3 electrodes with Kh25N13 wire recommended by НИИХИМАШ (Ref. 5). The tests showed that automatic welding of low-carbon St. 3 steel with 1Kh18N9T steel is most expediently performed with Kh20N10G6 filler wire and non-alloying KhNK-66, AH-26 (AN-26) and AHФ-5 (ANF-5) fluxes. Electrodes with Kh20N10G6 wiring insulated with non-alloying F-1 insulation are recommended for manual electric arc welding. There are 2 tables, 4 figures and 5 Soviet references.

Card 2/2

BRIKUL'SKIY, B.I.

Our brigade fulfills norms ahead of time. Avt.dor. 25 no.5:8-9
My '62. (MIRA 15:6)

1. Instruktor Chernomorskoy normativno-issledovatel'skoy
stantsii.

(Road construction)

BRIKUN, I.K.; KOZLOVSKIY, M.T.

Interaction of hydroxylamine with arsenic, antimony, and
bismuth compounds. Zhur. anal. khim. 19 no.2:212-215 '64.

(MIRA 17:9)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, Alma-Ata.

BEIKUN, A.K.; KALOSKOV, M.T.

Study of the interaction of bi and trivalent vanadium with hydro-
xylamine by potentiometric titration. Izv. AN Kazakh. SSR. Ser.
khim. nauk 15 no.2:8-14 Ap-Je '65. (MIRA 18:9)

BRIKUN, N.I.; KOROVINA, K.F.; IVANOVA, Z.A.

Food poisoning caused by watermelons. Gg.1 san. 25 no.7:78-
79 JI '60. (MIRA 14:5)

1. Iz Orenburgskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii.
(FOOD POISONING) (WATERMELONS)

BRIKVALI, K. K. In Latvian

BRIKVALI, K. K. -- "Characteristics of Microaggregates and Aggregates of the Soils of the Latvian SSR." Latvian Agricultural Academy, 1952. In Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy, SSR. No. 9, Sept., 1955

BRIL', A. (g.Gornyak, USSR); POLITKO, V. (g.Temur-Tau, Kazakhskaya SSR)

Repaired by amateurs. Radio no.12:50 D '61.
(Television--Repairing)

(MIRA 14:12)

BRIL', A. A.

"Functional Disturbances of the Liver During Acute Gastrointestinal Diseases and Forms of Pneumonia in Young Children." Cand Med Sci, Leningrad State Pediatrics Medical Inst; Leningrad State Sci-Res Pediatric Inst, Leningrad, 1954. (RZhBiol, No 7, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

BRIL', A.A., kandidat meditsinskikh nauk

Protein concentrates in the nutrition of children suffering from anorexia. Vop.okh.mat. 1 det. 1 no.3:63-67 My-Je '56. (MLRA 9:9)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo insituta (dir. - prof. A.L.Libov, nauchnyy rukovoditel' - prof. M.N.Nebytova-Luk'yanchikova) Leningrad.
(INFANTS--NUTRITION) (PROTEINS)

- TSUKERMAN, R.V., kand. tekhn. nauk; BULANOV, N.G., kand. ekon. nauk;
SHIFRIN, I.B., inzh.; BRIL!, A.R., inzh.; NAZARENKO, S.S.,
inzh.; BIZINA, N.S., inzh.

Auxiliary equipment of steam turbine electric power plants.
Energomashinostroenie 11 no.9:40-42 S '65. (MIRA 18:10)

BRIL', A.S.

Characteristics of the production of tablets of certain denominations. Trudy Len. khim.-farm. inst. no.14:77-81 '62
(MIRA 17:2)

1. Eksperimental'naya laboratoriya khimiko-farmatsevticheskogo zavoda No.1.

BRIL', B. S.

USSR/Metals - Welding

Jul 50

"Investigation of Automatic Welding With Three-Phase Arc," Engineers G. P. Mikhaylov, B. S. Bril', Ye. I. Bobrov

"Avtogen Delo" No 7, pp 9-12

Describes experiments on process and equipment for subject welding being conducted by Sverdlovsk Affiliate, Cen Lab (SFTsL-1) Min of Transp Mach Bldg, which constructed new automatic three-phase head ATG-3 for welding under flux butt or angular joints of any length. Head works on principle of self-regulation of arc length, i.e., it has a constant feeding rate of electrode wire. Sheets 8-150 mm thick were welded.

PA 167T60

BRIL B.S.																									
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
PROCESSES AND PROPERTIES INDEX																									
4808* Investigation into Automatic Three-Phase Arc-Welding. G. P. Michailov, B. S. Bril and E. I. Bobrov. <i>Enginners' Digest</i>, v. 12, Feb. 1951, p. 56-57. (Translated and condensed from <i>Artogennoe Delo</i> [Welding], v. 21, July 1950, p. 9-12.) Previously abstracted from original.																									
ASB 11A METALLURGICAL LITERATURE CLASSIFICATION																									
26																									

PONOMAREV, O.P.; VASIL'YEV, S.A., inzh., red.; BRIL', E.P., red.;
KOGAN, F.L., tekhn. red.; KOLONIN, R.I., tekhn. red.

[Modern fuel-feed systems for diesel engines for trucks and
tractors; review] Sovremennaya toplivopodaiushchaya apparatu-
ra avtotraktornykh dizelei; obzor. Pod red. S.A. Vasil'eva.
Moskva, TSentr. in-t nauchno-tekhn. informatsii mashinostroeniia,
1961. 98 p. (MIRA 15:9)
(Diesel engines--Fuel systems) (Tractors) (Motortrucks)

ARDASHEV, G.R.; MIKHAYLOV, I.N.; ZAMORSKIY, V.V.; DOVGICH, I.A.;
SEVERNEV, I.M.; DOMAN'KOV, V.M.; Primalni uchastnye:
FEDOSOV, I.M.; KRIVENKO, P.M.; KUDRYAVTSEV, P.R.;
BARABANOV, V.Ye.; BRIL', E.P., red.; PARSHIN, V.G., tekhn.
red.

[Technical maintenance of the KD-35, KDP-35, and T38
tractors] Tekhnicheskii ukhod za traktorami KD-35, KDP-35
i T38. Moskva, Biuro tekhn.informatsii GOSNITI, 1962. 153 p.
(MIRA 16:10)

1. Russia 1923- U.S.S.R.) Ministerstvo sel'skogo khozyaystva. 2. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskii institut remonta i ekspluatatsii mashinno-traktornogo parka (for Ardashev, Mikhaylov, Fedosov, Krivenko, Kudryavtsev, Barabanov). 3. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for Zamorskiy Dvgich). 4. Beloruskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for Severnev, Doman'kov).
(Tractors--Maintenance and repair)

BOLGOV, I.V.; KOPYLOV, Yu.M.; PASECHNIKOV, N.S.; VEGER, V.P.;
BRIL', E.P., red.; PARSHIN, V.G., tekhn. red.

[Cold weather operation of tractors] Tekhnicheskaya eks-
pluatatsiya traktorov v kholodnoe vremia goda. Moskva,
1962. 179 p. (MIRA 17:4)

1. Moscow. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'-
skiy tekhnologicheskoy institut remonta i ekspluatatsii ma-
shinno-traktornogo parka. 2. Sotrudniki Laboratorii tekhnich-
eskogo obsluzhivaniya mashino-traktornogo parka Gosudarstvennogo
vsesoyuznogo nauchno-issledovatel'skogo tekhnologicheskogo in-
stituta remonta i ekspluatatsii mashinno-traktornogo parka (for
Bolgov, Kopylov, Pasechnikov, Veger).

BRIL', G. (Khar'kov)

Semiprocessed products prepared by the central restaurant kitchen.
Obshchestv. pit. no.7:12 J1 '59. (MIRA 12:12)
(Kharkov--Restaurants, lunchrooms, etc.)

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
BRILL 22 *351. Methods for Determining the Chemical Stability of Glass. (In Russian.) I. L. Brill. <i>Zavodskaya Laboratoriya</i> (Factory Laboratory), v. 13, Sept. 1947, p. 1053-1055. Reviews briefly existing methods and recommends use of a method in which determination of the electrical conductivity of the solution obtained by leaching with acid, alkaline, and neutral solutions, is used as an indicator of stability. Results for 6 glasses are compared. 14 ref.																			
ASH-11A METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									

~~BRIL', I.I.~~

Examining the quality of medical syringes. Med. prom. 11 no.3:14-20
Mr '57 (MLRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(SYRINGES)

BRIL', I.L.

KLIMOVA, N.A.; BRIL', I.L.

Increasing the chemical stability of medical glassware. Med.prom.
(MLRA 10:8)
11 no.7:37-41 J1 '57.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya
(MEDICAL SUPPLIES) (GLASS MANUFACTURE--CHEMISTRY)

Brill, I. L.

2

Increasing the chemical resistance of glassware. N. A. Klimova and I. L. Brill, U.S.S.R. 108,041, Oct. 25, 1957.
To increase its chem. resistance, into a glass article, either cold or heated, is placed a pellet of 1 of the following salts or their mxt.: Fe or Al NH₄ sulfate, Fe(SO₄)₃, Al(SO₄)₃, (NH₄)₂SO₄, (NH₄)₂SO₄, or NH₄Cl, and the article is placed in the furnace at the annealing temp. M. Hosen //

BRIL' I.L.
TUR. N.Ye.; BRIL', I.L.

Use of precision-molded cylinders in making syringes. Med.prom. 11
no.11:47-51 N '57. (MIRA 11:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya
(SYRINGES)

BRIL, I.L.
BRIL', I.L.; GUMILEVSKAYA, M.I.

Increasing the chemical stability of glass medical instruments and
apparatus. Med.prom. 12 no.2:48-49 F '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(GLASS) (BOTTLES)

BRIL', I.L.; KLIMOVA, N.A.

Increasing the resistance of medical mirrors for sterilization by
boiling. Med.prom. 13 no.9:46-49 S '59. (MIRA 13:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(MEDICAL INSTRUMENTS AND APPARATUS--STERILIZATION)

BRIL', I.L.; SOLOMINA, Ye.P.; SOLOV'YEVA, O.A.

Increasing accuracy in the determination of the chemical resistance
of glass ampules and tubes. Med.prom. 13 no.11:26-28 N '59.

(MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.

(GLASS--TESTING)

BRIL', I.I.

Technological peculiarities of the production of fused bifocal
spectacle lenses. Med.prom. 13 no.12:46-48 D '59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.
(GLASS, OPTICAL)

BABCHINITSER, M.I.; BRIL', I.L.

Problems in improving the quality of hypodermic syringes. Med.
prom. 14 no.5:48-50 My '60.
(MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya,
(HYPODERMIC SYRINGES)

BRIL', I.L.

Increase the production and improve the quality of
quality of medical glassware. Stek.1 ker. 17 no.5:
19-22 My '60. (MIRA 13:8)

(Glass manufacture)

BRIL', I.L.

Protective goggles. Nov. med. tekhn. no.5:83-86 '61.

(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.

BRIL', M.

Measurement engineering needs qualified specialists. MTO 2 no.3:
37 Mr '60. (MIRA 13:6)

1. Zamestitel' predsedatelya soveta pervichnoy organizatsii
Nauchno-tekhnicheskogo obshchestva Gosudarstvennoy kontrol'noy
laboratorii po izmeritel'noy tekhnike, Kiyev.
(Professional education)

BRIL', M.G.; SHUL'KIN, Yu.B.

Large-span roofs made of lightweight alloys. Prom. stroi. 38
no. 12:40-46 '60. (MIRA 13:12)
(Aluminum alloys) (Domes)

BRIL', M.G.; GIMEYN, B.S.; GRISHIN, V.A.

Prestressed concrete double-cantilever slabs for the roofs of
industrial buildings. Prom. stroi. 39 no.5:34-36 '61.

(MIRA 14:7)

(Roofs, Concrete) (Reinforced concrete construction)

BRIL', M.G., inzh.; PAVILAYNEN, V.Ya., inzh.; SHUL'KIN, Yu.B., inzh.;
IMMERMAN, A.G., kand.tekhn.nauk

Three-dimensional structures with large spans made of light
metals. Rasch.prostr.konstr. no.6:5-38 '61. (MIRA 15:3)
(Roofs, Shell) (Aluminum, Structural)

BRIL', M.G., inzh.; KLYACHKIN, Ye.I.

Precast reinforced concrete double branched columns for plants equipped with cranes having a lifting capacity of 75, 100 and 125 tons. *Biul. stroi. tekhn. 20 no. 10:43 Q '63.* (MIRA 16:11)

1. Starshiy inzh. proyektного instituta No.1 Glavnogo upravleniya po stroitel'nomu projektirovaniyu predpriyatiy, zdaniy i sooruzheniy Gosstroya SSSR (for Klyachkin).

BRIL' M.N.
Category : USSR/Optics - X-rays

K-8

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 2576

Author : Vaynshteyn, E.Ye., Staryy, I.B., Bril', M.N.

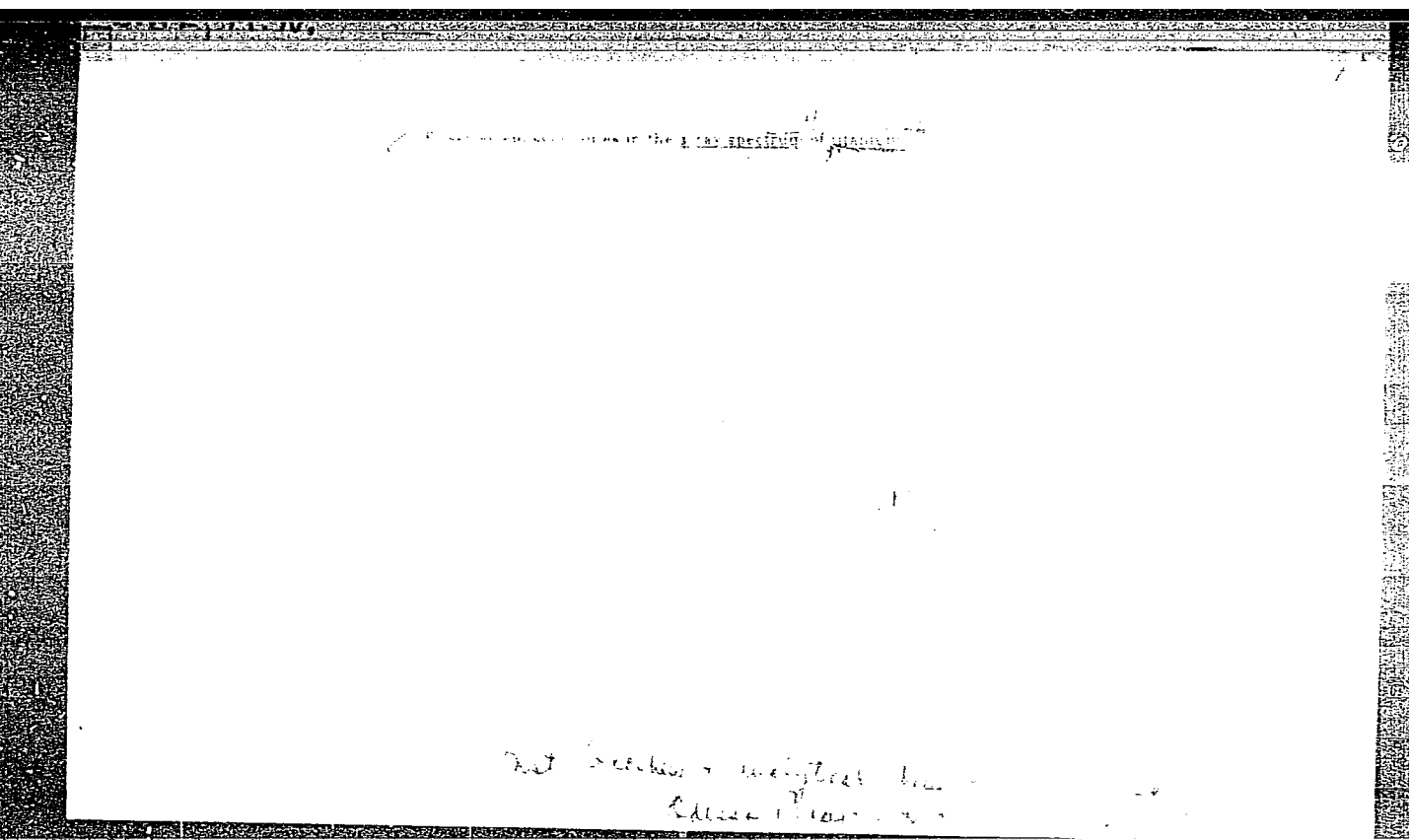
Inst : Inst. of Geochemistry and Analyt. Chem, Acad. of Sciences USSR, Odessa
Pedagogical Inst., USSR

Title : Fine Structure of the Fundamental X-Ray K Absorption Spectrum of Titanium
in Certain Dielectric Materials

Orig Pub : Dokl. AN SSSR, 1955, 105, No 5, 943-946

Abstract : A focusing vacuum spectrograph of high resolution was used to study the fine structure of the X-ray K absorption edge of Ti in rutile, brookite, anatase, perovskite, ilmenite, and metallic Ti. A quartz analyzer was used. The reflecting planes were (1011). The bending radius of the crystal was 2545. The crystal was bent at four points. The dispersion of the instrument was 2.5 X / mm. The current was 50 ma at 11 kv. The anode was gold. The density of the material in the absorbers was 6 -- 13 mg/cm². The exposure was 4 - 12 hours. The experimentally-observed difference in the fine structure of the edge of Ti absorption in the metal and in the compounds is interpreted on the basis of the theoretical concepts developed by one of the authors in an earlier work (Barinskiy R.L., Vaynshteyn, E.Ye., Narbutt, D.I., Dokl. AN SSSR, 1952, 83, 199; Vaynshteyn E.Ye., Narbutt, K.I., Barinskiy, R.L., Dokl. AN SSSR, 1952, 82, 701).

Card : 1/1



BRIL', M. N.

AUTHORS: Vaynshteyn, E. Ye., Bril', M. N., Staryy, I. B. 20-4-14/52

TITLE: On Some Rules Governing the Structure of the X-ray
K -emission Spectra of Titanium in Titanates (O nekotorykh
zakonomernostyakh v strukture rentgenovskikh K-spektrov
ispushkaniya titana v titanatakh)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 597-600 (USSR)

ABSTRACT: The authors investigated the lines of the K_{β} -group of titanium in the X-ray emission spectra of this element in brookite, anatase and in titanates of Mg, Ca, Sr, Ba, Fe, and Zn. From the barium titanates the monotitanates and tetratitanates ($BaO \cdot TiO_2$ and $BaO \cdot 4 TiO_2$) were investigated. Brief reference is made to the structure of the various titanates. The investigations were carried out by means of a focussing X-ray tube spectrograph with a quartz crystal as analyzer. The prism faces served as reflecting surfaces. The spectra were photographically registered. The authors investigated the position, the form, and the relative intensities of the lines K_{β_1} , K_{β_5} , $K_{\beta'}$, and $K_{\beta''}$ of titanium

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On Some Rules Governing the Structure of the X-ray
K - emission Spectra of Titanium in Titanates

20-4-14/52

in the above-mentioned compounds. The maxima of the lines K_{β_1} and K_{β_5} of titanium were slightly displaced towards the longwave side with all compounds compared with their position in the spectrum of the metal. The energetic position, the width and the index of asymmetry of the emission-lines of titanium do not suffer any substantial changes in the various compounds. The same holds also for the satellites K_{β_1} and K_{β_5} . There are 2 figures, 2 tables, and 8 references, 6 of which are Slavic.

ASSOCIATION: Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AN USSR (Institut geokhimii i analiticheskoy khimii imeni V. I. Vernadskogo Akademii nauk SSSR) Pedagogical Institute imeni K. D. Ushinskiy, Odessa (Odesskiy pedagogicheskiy institut imeni K. D. Ushinskogo)

PRESENTED: June 27, 1957, by A. P. Vinogradov, Academician.

SUBMITTED: June 11, 1957

Card 2/3

On Some Rules Governing the Structure of the X-ray
K - emission Spectra of Titanium in Titanates

20-4-14/52

AVAILABLE: Library of Congress

Card 3/3

24(7)

AUTHORS:

Vaynshteyn, E. Ye., Bril', M. N., Staryy, I. B. SOV/20-122-2-10/42

TITLE:

The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates (~~Tonkaya~~ struktura rentgenovskikh K-spektrov pogloshcheniya titana v titanatakh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 2, pp 201-203 (USSR).

ABSTRACT:

In a previous paper the fine structure of the X-ray emission K-spectra of titanium in the titanates of Mg, Ca, Ba, Sr, Fe, Zn was investigated. This paper gives results concerning the absorption K-spectra of titanium in the same titanates. These spectra were investigated by means of a focussing X-ray tube spectrograph with a curved quartz crystal. The investigations were carried out by means of absorbers of various thickness (3 - 14 mg/cm²). The short-wave structure of the edge appears most clearly and without distortions in the spectra of thin absorbers. The intensity then decreases and the structure of the long-wave group of the absorption lines appears, but only faintly. In the spectra of thick absorbers, the succession is reversed. The most favorable thick-

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SOV/20-122-2-10/42

The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates

ness of the absorbers was $\sim 5 \text{ mg/cm}^2$. The absorption spectra found for titanium, for the above mentioned titanates, and for rutile (TiO_2) are represented in some diagrams. From these

experimental results the following conclusions may be drawn:

- 1) The X-ray absorption spectra of titanium in titanates are characterized by a distinct fine structure which has many fluctuations. The shape of this fine structure depends on the type of the crystal structure, on the characteristic features of the chemical bonds in the compound, and on the polarization state of the titanium atoms and oxygen atoms in this compound. The edge of the absorption of titanium in ZnTiO_3 has the simplest shape. 2) In the X-ray absorption spectra of titanium in compounds which have a crystal structure of the ilmenite type (FeTiO_3 , MgTiO_3), the shape of the long wave absorption band and the point of its maximum (with respect to the energy) remain the same as in the spectra of ZnTiO_3 . However, the fine structure of the short-wave region of the absorption edge has a more complicated structure. 3) In the absorption spectra of titanium in rutile and in compounds of the structure of the perkovskite type, a splitting

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SOV/20-122-2-10/42

The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates

up of the long wave band into a doublet is observed. The structure of the principal absorption edge of titanium in compounds of the perovskite type only slightly depends on the nature and on the dimensions of the kation, but it depends to a considerable extent on the polarization of the atoms in the investigated compound. The positions of the centers of gravity of the complicated (with respect to the structure) absorption bands of titanium in BaTiO_3 corresponds approximately to the position of the absorption maxima of the spectrum of titanium in barium tetratitanate. Finally, the authors compare their interpretation of the above-discussed facts with the interpretation given by M. A. Blokhin (Ref 4). There are 4 figures and 4 references, 4 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo Akademii nauk SSSR
(Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR)

Card 3/4

SOV/20-122-2-10/42
The Fine Structure of the X-Ray Absorption K-Spectra of Titanium in Titanates

Odesskiy pedagogicheskiy institut im. K. D. Ushinskogo
(Odessa Pedagogical Institute imeni K. D. Ushinskiy)

PRESENTED: May 19, 1958, by A. P. Vinogradov, Academician

SUBMITTED: May 15, 1958

Card 4/4

24(7)

SOV/20-126-4-15/62

AUTHORS: Vaynshteyn, E. Ye., Bril', M. N., Kopelev, Yu. F.

TITLE: The Fine Structure of the X-ray-K-spectrum of the Absorption of Titanium in the Titanate System BaO-TiO_2 and Its Relation to the Properties of the Polarization of Ti^{2+} Atoms in Seignette-electric Crystals (Tonkaya struktura rentgenovskikh K-spektrov pogloshcheniya titana v titanatakh sistemy BaO-TiO_2 i yeye svyaz' s kharakterom polyarizatsii atomov v segnetoelektricheskikh kristallakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 744 - 747 (USSR)

ABSTRACT: In the present paper investigations of the fine structure of the X-ray absorption spectrum of some compounds of the system BaO-TiO_2 are carried out for the purpose of evaluating the symmetry and the magnitude of the internal field in crystals. Investigations are carried out of BaO.TiO_2 , BaO.2TiO_2 and BaO.4TiO_2 , and the results obtained are given by three diagrams (Figs 1,2,3). An investigation of these results and a

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The Fine Structure of the X-ray-K-spectrum of the SOV/20-126-4-15/62
Absorption of Titanium in the Titanate System BaO-TiO_2 and Its Relation to
the Properties of the Polarization of Atoms in Seignette-electric Crystals

comparison with those of one of the authors' earlier papers is carried out in five sections: 1) The X-ray absorption spectra of all three compounds have characteristic properties, which are suited for the purpose of acquiring further knowledge with respect to these compounds. 2) In accordance with the results obtained by a paper by N. I. Shchepochkina it is stated that barium tetranitrate ($\text{BaO} \cdot 3\text{TiO}_2$) is not a separate compound. 3)

A connection between the fine structure of the X-ray absorption spectrum of atoms and the polarization conditions in dielectric media was found to exist. 4) The splitting of absorption lines is investigated, and for the distance between the components of the split-off doublet the two formulas (1) and (2) are given, and for the extent of splitting for absorption lines of titanium, in connection with the transition of the 1s-electron to the 4p- and 5p-level, 4.8 and 5 eV are given respectively. From these data the internal field acting upon a titanium ion is estimated at $(6-8) \cdot 10^5$ esE. 5) In the case of a spontaneous polarization of the titanium ion, the latter is displaced in

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The Fine Structure of the X-ray-K-spectrum of the SOV/20-126-4-15/62
Absorption of Titanium in the Titanate System BaO-TiO_2 and Its Relation to
the Properties of the Polarization of Atoms in Seignette-electric Crystals

the crystal, which results in a deterioration of symmetry. The latter is accompanied by a splitting of degenerated levels, which may be determined by means of the group theory. In conclusion, the further application of the group theory is outlined, and the splitting of the levels into multiplets by transitions of the 1s electron is briefly explained. There are 3 figures and 11 references, 8 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences, USSR), Odesskiy pedagogicheskiy institut im. K. D. Ushinskogo (Odessa Pedagogical Institute imeni K. D. Ushinskiy)

PRESENTED: February 27, 1959, by A. P. Vinogradov, Academician

SUBMITTED: February 24, 1959

Card 3/3

14,6820(1153,1160)
9,4300(1043,1155)

23351 S/058/61/000/006/038/063
A001/A101

AUTHORS: Vaynshteyn, E.Ye., Brill', M.N., Kopelev, Yu.F.

TITLE: The use of fine structure of X-ray absorption spectra for determining the internal field in ferroelectrics

PERIODICAL: Referativnyi zhurnal, Fizika, no. 6, 1961, 264, abstract 6E157 ("Nauchn. zap. kafedr matem., fiz. i yestestvozn. Odessk. gos. ped. in-t", 1959, v. 24, no. 1, 29 - 33)

TEXT: The fine structure of Ti X-ray absorption spectrum in ferroelectric BaTiO₃ is associated with the high value of internal field and is considered as an analog of Stark splitting. The structure of the electron shell of the Ti⁴⁺ ion warrants its consideration as hydrogen-like and establishing a correlation between the internal field intensity and the magnitude of splitting of 4p and 5p levels. Experimental values of separations between the components of the split lines permitted the estimate of internal field affecting Ti⁴⁺, $E_{int}(Ti) = (6 - 8) \times 10^5$ CGSE. The part of spontaneous polarization caused by displacements of Ti ions was estimated. The magnitude obtained is in satisfactory agreement with estimates made on the basis of electric measurements. This indicates the possibility of

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The use of fine structure ...

23351 S/058/61/000/006/038/063
A001/A101

using the X-ray spectral method for independent investigations of phenomena of spontaneous polarization in crystals. The possibility of using, in principle, the fine structure of X-ray absorption spectra in ferroelectrics for determining the direction of ion displacements under conditions of spontaneous polarization, is pointed out. ✓

V. Lyubimov

[Abstracter's note: Complete translation]

Card 2/2

L 13704-63

ACCESSION NR: AP3003515

S/0020/63/151/001/0120/0121

AUTHORS: Vaynshteyn, E. Ye.; Stary*y, I. B.; Bril', M. N.

44

TITLE: X-ray L-absorption spectra for lanthanum, praseodymium, neodymium, and samarium in oxides and fluorides

SOURCE: AN SSSR. Doklady*, v. 151, no. 1, 1963, 120-121

TOPIC TAGS: X-rays, absorption spectrum, lanthanum, praseodymium, neodymium, samarium

ABSTRACT: Authors obtained absorption spectra of rare-earth elements in compounds of peroxides, oxides, oxyfluorides, and fluorides with a focusing tube spectrograph. Results are shown in a figure and are discussed. "The authors express their gratitude to L. V. Soboleva and L. R. Batsanova for the presentation of some of the compounds which were analyzed in this work." The paper was presented by Academician A. P. Vinogradov on 9 March 1963. Orig. art. has: 1 figure.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Department, Academy of Sciences SSSR; Odesskiy pedagogicheskiy institut im. K. D. Ushinskogo (Odessa pedagogical

Card 1/2

L 18963 -63 EWP(q)/EWT(m)/BDS. AFFTC/ASD JD/JG.

ACCESSION NR: AP3006598 S/0020/63/151/006/1360/1363⁶²₃₉

AUTHORS: Vaynshteyn, E. Ye.; Bril', M. N.; Stary'y, I. B.;
Kost, M. Ye.

TITLE: Some results of X-ray study of cerium¹¹ and lanthanum¹¹
hydrides¹¹

SOURCE: AN SSSR. Doklady*, v. 151, no. 6, 1963, 1360-1363

TOPIC TAGS: electron bond, valence, hydrogen bond, metallic
bond, La, Ce, X-ray spectra, hydride preparation,
hydride storage

ABSTRACT: Use of hydrides of rare earth elements in
metallurgy, vacuum technique, and synthesis created interest
for additional information concerning the physico-chemical
properties of these compounds. Authors studied the hydrides
 $\text{LaH}_{1.97}$, $\text{LaH}_{2.23}$, $\text{LaH}_{2.66}$, CeH_2 , $\text{CeH}_{2.24}$, and $\text{CeH}_{2.66}$ by X-ray
spectrometry. Samples for investigation were prepared by

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ACCESSION NR: AP3006598

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direct reaction of hydrogen and metals at room temperature. Hydrides with lower hydrogen content were prepared by heating high hydrogen-content hydrides. Hydrides were impregnated on silk cloth and sealed in polyethylene envelopes. Preparation was accomplished in a dry chamber, filled with CO₂ and operated from outside. Prepared samples were kept in a container under vacuum. Results of investigation indicate that cerium and lanthanum in hydride form have three valences and valence energy only partly used in formation of ionic bonds with hydrogen, while the rest of it is used to produce metallic bonds. This fact has a direct bearing on decrease of electrical conductivity with an increase of hydrogen content. Orig. art. has: 4 figures.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Division, Academy of Sciences, SSSR), Institut neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of Inorganic Chemistry, Academy of

Card

2/02

VAYNSHTEYN, E.Ye.; BRIL', M.N.; STARYY, I.B.; KOST, M.Ye.

On certain results of an X-ray spectrum analysis of cerium and
lanthanum hydrides. Dokl. AN SSSR 151 no.6:1360-1363 Ag '63.
(MIRA 16:10)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR,
Institut neorganicheskoy khimii im. N.S.Kurnakova AN SSSR i
Odesskiy pedagogicheskiy institut im. K.D.Ushinskogo. Predstavleno
akademikom A.P.Vinogradovym.

I 34497-65 EWP(e)/EWT(m)/EWP(t)/EWP(h) IJP(c) JD/JG
ACCESSION NR: AP5002800 S/0078/65/010/001/0121/0126 22

AUTHOR: Vaynshteyn, E. Ye.; Blokhin, S. M.; Bril', M. N.; Staryy, I. B.; Paderno, Yu. B.

TITLE: X-ray spectral investigation of the valency state of rare earth element atoms in the hexaborides

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 1, 1965, 121-126

TOPIC TAGS: rare earth hexaboride, rare earth element valence, valence determination, x ray absorption spectrum 27

ABSTRACT: The X-ray L-absorption spectra of the rare earth element hexaborides and oxides were compared to determine the valency state of the rare earth element in the hexaborides. The L_{III} absorption spectra of the Ce, Nd, Pr and Gd oxides and hexaborides were analogous, with coinciding long wave absorption line maxima, indicating the hexaborides were trivalent, as were the oxides. Differences in the short wave maxima were ascribed to differences in the crystal structure of the oxides and hexaborides. In the case of Eu and Yb, the shift of the absorption edge toward the long wave by the hexaborides in comparison to the

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L 34497-65

ACCESSION NR: AP5002800

oxides indicated the valency was less than 3. The spectra of Sm in SmB₆ were interpreted to indicate the presence of 35-40% divalent Sm distributed among the trivalent Sm. The effect of temperature (-100 to +600C) on the role of divalent Sm is being studied. Orig. art. has: 9 figures and 1 table.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR (Institute of Inorganic Chemistry, Siberian Branch, AN SSSR); Institut metallokeramiki i spetsspлавov AN UkrSSR (Institute of Powder Metallurgy and Special Alloys AN UkrSSR); Odesskiy pedagogicheskiy institut im. K.D. Ushinskogo (Odessa Pedagogical Institute)

SUBMITTED: 11Jun63

ENCL: 00

SUB CODE: IC, GC

NR REF SOV: 007

OTHER: 001

Card 2/2

BRIL', M. S.

Carrying out organized inspections. Izv.tekh. no.7:55-56
J1 '60. (MIRA 13:7)

(Weights and measures--Testing)
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